PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORITY		·		
То:		PCT		
WRAY & ASSOCIATES			101	
Level 4 The Quadrant		w.jp.t.	TTEN OPINION OF THE	
1 William Street PERTH WA 6000			NAL SEARCHING AUTHORITY	
TEXTI WA 0000				
			(PCT Rule 43bis.1)	
		Date of mailing	2 4 NOV 2005	
Applicant's or agent's file reference	-	(day/month/year) FOR FURTHER ACT		
115775:JHK			See paragraph 2 below	
i I	ternational filing date	(day/month/year)	Priority date (day/month/year)	
	September 2005	· .	3 September 2004	
International Patent Classification (IPC) or bot Int. Cl. ⁷ E21B 25/16, 47/024, 47/09	h national classifica	ation and IPC		
Int. Cl. ⁷ E21B 25/16, 47/024, 47/09 Applicant				
AUSTRALIAN MUD COMPANY	LTD et al		·	
1. This opinion contains indications relating	to the following ite	ems:		
X Box No. I Basis of the opinion				
Box No. II Priority		• .	·	
Box No. III Non-establishment of o	ppinion with regard to	novelty, inventive step a	and industrial applicability	
X Box No. IV Lack of unity of invent	ion			
Box No. V Reasoned statement un citations and explanation		s.1(a)(i) with regard to novelty, inventive step or industrial applicability; such statement		
X Box No. VI Certain documents cite	d			
Box No. VII Certain defects in the in	nternational application	ation		
X Box No. VIII Certain observations or	n the international app	pplication		
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.	-	· ···		
	•	•	·	
3. For further details, see notes to Form PGT/ISA/220.				
Name and mailing address of the IPEA/AU		Authorized Officer		
AUSTRALIAN PATENT OFFICE		S. GHOSH		
PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		Telephone No. (02) 6283 2163		
Facsimile No. (02) 6285 3929		Leichholle 140. (02)	<u> </u>	

International application No.

PCT/AU2005/001344

Box	No. I Basis of the opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
٦.	Additional Comments.

International application No.

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Box	No. IV	Lack of unity of invention			
1.	X In res	ponse to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:			
	X	paid additional fees			
		paid additional fees under protest			
		not paid additional fees			
2.		Authority found that the requirement of unity of invention is not complied with and chose not to invite the cant to pay additional fees.			
3.	This Author	ity considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is			
	comp	lied with			
	X not co	omplied with for the following reasons:			
1.	drill and a signals ass signals to time, mean	o 23 are directed to a core drill having a core orientation device, the core orientation device for the core method of obtaining and orientating a core sample. It is considered that an arrangement for providing sociated with a physical orientation of the core orientation device, processing means for processing the establish a measure of the physical orientation of the core orientation device at a particular moment in as for storing data and means to provide the measure of the physical orientation of the core orientation en required comprises a first "special technical feature".			
2.	of a core s that means reference of the pre	to 31 are directed to an orientation device and a method for providing an indication of the orientation sample relative to a body of material from which the core sample has been extracted. It is considered as for determining and storing the orientation of the device at predetermined time intervals relative to a time, means for inputting a selected time interval, means for relating the selected time interval to one determined time intervals and providing an indication of the orientation device at the selected time imprises a second "special technical feature".			
relat	Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.				
4. (Consequently	rts			
_		arts relating to claims Nos.			

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Bo	x No. V		ement under Rule 43 <i>bis</i> .1(a)(i) with citations and explanations supportin	or industrial
1.	Statement			
	Nov	elty (N)	Claims 1-33	YES
			Claims	NO

Claims

Industrial applicability (IA) Claims 1-33

Claims

Claims 1-33

NO

YES

NO

2. Citations and explanations:

Inventive step (IS)

The following documents identified in the International Search Report have been considered for the purposes of this opinion:

D1: CA 2456506 D2: US 5105894 D3: RU/2160821

Novelty (N) and Inventive Step (IS) Claims/1-33

Neither of the documents D2 and D3 (both published before the priority date) do not disclose all of the features of claims 1 -33.

Therefore the subject matter of these claims is new and is not obvious and, as such meets the requirements of Articles 33(2) and 33(3) of the PCT/with regard to novelty and inventive step, respectively.

With regard to the document(s)/listed in Box VI under "certain documents cited", these are documents published prior to the international filing date but later than the priority date claimed but which would otherwise be considered to be of particular/relevance.

Under the PCT, novelty is considered only in respect of documents published before the priority date. The relevance of a document/published after the priority date is dependent upon national law. Such documents are excluded from consideration in preliminary examination, under the PCT Guidelines but have been included here for information.

Industrial Applicability (IA)

The invention defined in the claims is considered to meet the requirements of Industrial Applicability under Article 33(4) of the PQT because it can be made by, or used in, industry.

International application No.

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Box No. VI Certain documen	its cited		
Certain published documents (R	Rules 43bis.1 and 70.10)		
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
P, X CA 2456506	.3 January 2005	3 February 2004	3 February 2004
•			•
		-	
This document discloses all of and 19 (although not disclosed whole document.			
		•	
2. Non-written disclosures (Rules	43 <i>bis</i> .1 and 70.9)		
		•	•
Kind of non-written disclosure		written disclosure nonth/year) refe	Date of written disclosure rring to non-written disclosure (day/month/year)
Kind of non-written disclosure			
Kind of non-written disclosure			rring to non-written disclosure
	(day/n		rring to non-written disclosure
		nonth/year) refe	rring to non-written disclosure (day/month/year)
	(day/n	nonth/year) refe	rring to non-written disclosure (day/month/year)
	(day/n	nonth/year) refe	rring to non-written disclosure (day/month/year)

supported by the description, are made:

International application No.

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Box No. VIII	Certain observations on the inter-	national application			
The following o	bservations on the clarity of the claim	s, description, and dra	wings or on the question w	hether the claims are	e fully

1. Claim 11 lacks clarity in that the scope of term "integration means" cannot be clearly ascertained.

A similar observation applies to claims 13 and 21 with regard to "means for maintaining knowledge".

2. Claim 20 commences with the words "According to a third aspect". It should perhaps define "A method of obtaining".